	Application No.	Applicant(s)
	10/627,743	PAK ET AL.
Notice of Allowability	Examiner	Art Unit
	Patricia L. Hailey	1755
The MAILING DATE of this communication appears All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIP of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included
1. This communication is responsive to <u>Applicants' Information</u>	n Disclosure Statement, filed Octobe	e <u>r 29, 2003</u> .
2. ☑ The allowed claim(s) is/are <u>1-34</u> .		
3. The drawings filed on 28 July 2003 are accepted by the Ex	aminer.	
 4. Acknowledgment is made of a claim for foreign priority unal (a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply of ENT of this application.	complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINER' es reason(s) why the oath or declarat	S AMENDMENT or NOTICE OF tion is deficient.
6. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.	
(a) ☐ including changes required by the Notice of Draftspers		948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in the O	ffice action of
Identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the drawin ne header according to 37 CFR 1.121(d	gs in the front (not the back) of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT F	sit of BIOLOGICAL MATERIAL m FOR THE DEPOSIT OF BIOLOGICA	nust be submitted. Note the NL MATERIAL.
Attachment(s)		
1. Notice of References Cited (PTO-892)	5. Notice of Informal Pa	atent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ⊠ Interview Summary (Paper No./Mail Date	PTO-413), 2 <u>7/26/04</u> .
3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 10/29/03	B), 7. ⊠ Examiner's Amendm	ent/Comment
4. Examiner's Comment Regarding Requirement for Deposit		nt of Reasons for Allowance
of Biological Material		Mark L. Bell visory Patent Examiner hnology Center 1700

Application/Control Number: 10/627,743

Art Unit: 1755

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Charles Wieland on July 15 and 26, 2004.

The application has been amended as follows:

a. Please cancel claims 35-40 without prejudice or disclaimer.

Claims 35-40 have been canceled because they were subject to a restriction requirement.

Allowable Subject Matter

2. Claims 1-34 are allowed.

Reasons for Allowance

3. The following is an examiner's statement of reasons for allowance:

The prior art of record does not teach or suggest the claimed process for making a carbon molecular sieve, wherein pores of a mesoporous silica molecular sieve (used as a template) are impregnated with a mixture of: a silica oligomer, a condensable or polymerizable carbon-containing compound (used as a carbon

Application/Control Number: 10/627,743

Art Unit: 1755

precursor), and a liquid carrier, the carbon precursor is polymerized to form a carbon precursor polymer within the pores of the template, and the carbon precursor is then carbonized via pyrolysis, and the template and silica oligomer are removed using a solution capable of dissolving silica.

Ryoo et al. (U. S. Patent Application Publication No. 2002/0187896) teaches a process for manufacturing a carbon molecular sieve similar to Applicants' claimed process, with the exception that Ryoo et al. do not teach or suggest the presence of a silica oligomer in the mixture impregnated into the pores of the mesoporous molecular sieve.

Fan et al. (U. S. Patent No. 6,471,761) disclose a coating composition comprising TEOS (tetraethylorthosilicate), a surfactant, at least one organosilane, HCl, water and ethanol. While this references teaches the components of Applicants' "silica oligomer" (the reaction product of TEOS and HCl, see the paragraph bridging pages 5 and 6 of Applicants' Specification), this reference does not teach or suggest Applicants' claimed process for manufacturing a carbon molecular sieve, nor does this reference teach or suggest Applicants' claimed carbon molecular sieve.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/627,743

Art Unit: 1755

Priority

4. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Applicants' Priority Document was filed on July 28, 2003.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patricia L. Hailey whose telephone number is (571) 272-1369. The examiner can normally be reached on Mondays-Thursdays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark L. Bell can be reached on (571) 272-1362. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group 1700 Receptionist, whose telephone number is (571) 272-1700.

Art Unit: 1755

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patricia L. Hailey/plh

Examiner, Art Unit 1755

July 26, 2004

Mark L. Bell

Supervisory Patent Examiner Technology Center 1700